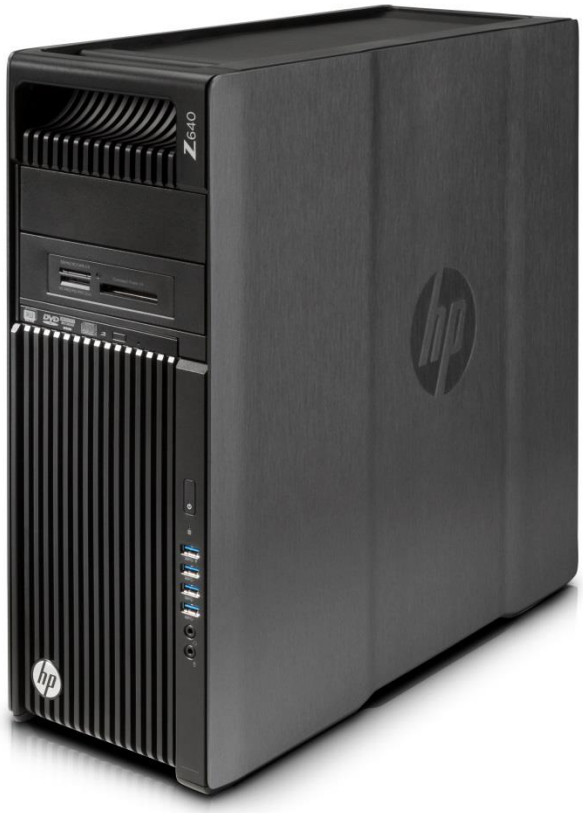
Avid Configuration Guidelines
HP Z640 Dual 8-Core / Dual 10-Core / Dual 12-Core CPU Workstation



Joe Conforti – Avid Technology – March 3rd 2015

Rev A

1.) HP Z640 AVID Qualified System Specification:

Z640 / AVID Qualified Operating System:

Microsoft® Windows 7 Professional 64-bit Edition with Service Pack 1
Microsoft® Windows 8.1 Professional / Enterprise 64-bit Edition

Z640 Hardware Configuration

Supported CPU Choices

- Dual Intel® 8-Core Xeon® Processors
  E5-2630v3 @ 2.4GHz 2 0 MB cache / 1866MHz memory
  E5-2640v3 @ 2.6GHz 2 0 MB cache / 1866MHz memory
  E5-2667v3 @ 3.2GHz 2 0 MB cache / 2133MHz memory
  (The E5-2630v3 and E5-2640v3 Processors will run the 2133MHz memory at 1866MHz speed due to the speed limitation of the memory controller used in those Processors).

- Dual Intel® 10-Core Xeon® Processors
  E5-2650v3 @ 2.3GHz 2 0 MB cache / 2133MHz memory
  E5-2660v3 @ 2.6GHz 2 0 MB cache / 2133MHz memory

- Dual Intel® 12-Core Xeon® Processors
  E5-2670v3 @ 2.3GHz 2 0 MB cache / 2133MHz memory
  E5-2680v3 @ 2.5GHz 2 0 MB cache / 2133MHz memory
  E5-2690v3 @ 2.6GHz 2 0 MB cache / 2133MHz memory

Supported Video Card

1.) NVIDIA K4200 4GB PCI-e video board
2.) NVIDIA K5200 8GB PCI-e video board **

** **Important warning regarding utilization of the K5200 video card:** The K5200 is a Dual-Width video card. It will cover and block access to slot #3. Slot #3 is required for the Avid DX Interface HBA or the HP Thunderbolt-2 PCIe I/O HBA. As a result, selecting the K5200 as the video card choice prevents the user from being able to connect Avid DX hardware or any Thunderbolt devices to the Z640.

System Disk Drive - 1TB SATA 6Gb/s 7200RPM (minimum recommended) , H.P. offers higher performing solid-state and SAS boot drive options which are acceptable options. Recommend an HP qualified drive be selected.

Standard 32GB AVID memory configuration: All dual CPU configurations.
32GB (8 x 4GB) DDR4 2133MHz ECC memory –
(Requires eight 4GB DIMMs, DIMM sizes cannot be mixed sizes)
4GB memory modules must be installed in the following memory slots:
CPU0-DIMM1, CPU0-DIMM3, CPU0-DIMM6, CPU0-DIMM8
CPU1-DIMM1, CPU1-DIMM3, CPU1-DIMM6, CPU1-DIMM8

Supported 64GB memory configuration: All dual CPU configurations.
64GB (8 x 8GB) DDR4 2133Mhz ECC memory –
(Requires eight 8GB DIMMs, DIMM sizes cannot be mixed sizes)
8GB memory modules must be installed in the following memory slots:
CPU0-DIMM1, CPU0-DIMM3, CPU0-DIMM6, CPU0-DIMM8
CPU1-DIMM1, CPU1-DIMM3, CPU1-DIMM6, CPU1-DIMM8

2.) Qualified Operating Systems and Avid Client Editing Applications:

Supported:
Microsoft® Windows 7 Professional 64-bit Edition with SP1 (SP1 required)
Microsoft® Windows 8.1 Professional / Enterprise 64-bit Edition

Not Supported - Microsoft® Windows 7 – any 32-bit version, or Home or Ultimate

Application	Minimum Rev
Media Composer 8.x	8.2.0
Media Composer 7.x	7.0.4.1**
NewsCutter 11.x	11.0.4.1**

** *Requires specific driver files for support of the next generation Nvidia video cards used in this system , i.e. Nvidia K4200 , K5200*

The required GPU files and installation instructions for Media Composer 7.0.4.1 can be found at the following Avid KB link:
http://avid.force.com/pkb/articles/en_US/compatibility/Media-Composer-7-0-4-1-Nvidia-GPU-Update

The required GPU files and installation instructions for NewsCutter 11.0.4.1 can be found at the following Avid KB link:
http://avid.force.com/pkb/articles/en_US/compatibility/NewsCutter-11-0-4-1-Nvidia-GPU-Update

Note regarding Service packs:
As of this writing Service Pack 1 is the current Service Pack release for Win7 and is required for Avid software. As future Service Packs are released Avid will evaluate and announce formal support when testing is completed.

3.) Qualified Hardware and shared storage support:

	Qualified / Supported
Nitris DX / Mojo DX	Yes
3rd Party Qualified Hardware	See release notes and Avid website for information regarding supported 3rd party hardware
ISIS Single 1Gb Ethernet Client ISIS Dual 1Gb Ethernet Client	ISIS 5500 / 5000 , 7500 / 7000 v4.0
ISIS Hi-res (single10Gbit) client Myricom Single-Port 10Gbit	ISIS 5500 / 5000 , 7500 / 7000 v4.0
ISIS Ultra Hi-res client (dual 10Gbit) Myricom Dual-Port 10Gbit	ISIS 5500 / 5000 v4.7

4.) AVID qualified HBA info

AVID qualified HBA	AVID Part Number	Slot Location	Function / Notes
Vendor qualified 3rd party PCI-E hardware interface requiring: x16 PCI-E Gen3 or lesser interface	Not stocked by AVID	#5	Vendor qualified 3rd party hardware interface. See release notes and Avid website for information regarding supported 3rd party hardware
Avid HIB, DX Interface HBA	Active: 7030-30048-02 Active: 7030-30048-01 Active: 7030-20084-01	#3	Avid DX Hardware Interface HBA *Not an option if the Nvidia K5200 video card is used because the K5200 is "Double-Width" and blocks access to slot#3*
HP Thunderbolt-2 PCIe I/O HBA	Not stocked by AVID HP Option G8U72AV (After-Market HP P/N) F3F43AA	#3	Thunderbolt devices including video I/O devices, storage solutions etc. http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04203028 *Not an option if the Nvidia K5200 video card is used because the K5200 is "Double-Width" and blocks access to slot#3*
Myricom Single-Port 10G-PCIE-8B-S	7030-30041-01	#4	Shared Storage: Unity ISIS 10Gb-Ethernet for Hi-Res client (ISIS 5000 / 5500 / 7000 / 7500)
Myricom Dual-Port 10G-PCIE2-8B2-2S	Not stocked by AVID	#4	Shared Storage: Unity ISIS Dual 10Gb-Ethernet for Client v4.7 only (ISIS 5500 / 5000 only) Requires installer package 1.1.13 which installs driver 1.1.14 (the install package is bundled with ISIS 4.7.3)
Intel PRO 1000 PT	7030-20139-01	#4	Shared Storage: Unity ISIS Copper Gb-Ethernet Dual Gb ISIS Connectivity. Required only if a dual 1Gb ISIS connection is required. If only a **single** 1Gb connection is required for ISIS then use the embedded I218-LM NIC.
Intel i350-T2 – Dual Gb NIC	Not stocked by AVID	#4	Shared Storage: Unity ISIS Copper Gb-Ethernet Dual Gb ISIS Connectivity. Required only if a dual 1Gb ISIS connection is required. If only a **single** 1Gb connection is required for ISIS then use the embedded I218-LM NIC.
Intel PRO 1000 PF - ISIS (Single or Dual Port)	Not stocked by AVID	#4	Shared Storage: Unity ISIS Optical Gb-Ethernet
HP Z Turbo Drive PCIe Solid State Storage	Not stocked by AVID	#4 or #5	See HP link for config info: http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA5-1923ENW
Red Accelerator	Not stocked by AVID	#4 or #5	Hardware Accelerator for RED files

Avid DX Interface HBA Support Note: (See reference pictures on page 17).

- *All 3 versions of the active DX interface HBA are supported on the Z640*

1) Active DX interface HBA 7030-30048-02
2) Active DX interface HBA 7030-30048-01
3) Active DX interface HBA 7030-20084-01

5.) Slot Configuration:

Slot Configuration Information			
Slot #	Electrical	Mechanical	
1	x1 PCI-E Gen 2	X1	**Covered by CPU riser for 2nd CPU and is not accessible**
2	x16 PCI-E Gen 3	x16	Graphics Card: Nvidia K4200 or K5200 *Please Note: K5200 is "Double-Width" and will block access to slot #3*
3	x4 PCI-E Gen 2	x4	Avid HIB, DX Interface HBA Active: 7030-30048-01 , 7030-30048-02 & 7030-20084-01 **Or** HP Thunderbolt-2 PCIe I/O HBA , HP Option G8U72AV when ordered with system. HP Option F3F43AA if ordered as an after-market option. http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04203028 ***Neither are an option if the Nvidia K5200 video card is used because the K5200 is "Double-Width" and blocks access to slot#3***
4	x8 PCI-E Gen 3	x8	Shared Storage Controllers for ISIS 5500 / 5000 / 7500 / 7000: Myricom 10G-PCIE-8B-S Myricom Dual-Port 10G-PCIE2-8B2-2S **(ISIS 5500 / 5000 v 4.7 or later)** **or** Red Accelerator / HP Z Turbo Drive PCIe Solid State Storage HBA
5	x16 PCI-E Gen 3	x16	Vendor Qualified 3rd Party Hardware PCI-e Interface requiring: x16 PCI-E Gen3 (or lesser interface) / Full – Length PCI form factor **or** Red Accelerator / HP Z Turbo Drive PCIe Solid State Storage HBA
6	PCI 32/33	PCI 32/33	No HBA recommended for Avid configurations. However, use this PCI-E space for Break-out connections for 3rd party video I/O products such as the BlackMagic DeckLink HDMI ports.
	Embedded Intel I218-LM Gb NIC	PCI-E x1 Gen 2	Qualified for Avid ISIS 5500 / 5000 / 7500 / 7000 connectivity

6.) Required system BIOS settings for AVID environments:

Hyper-Threading Setting:

Please Note: *CPU Hyper-threading should be enabled. It is currently enabled by default by HP*

Z640 Required system BIOS settings:

1. Verify CPU Processors are set to Hyper-Threading
2. Set Memory NUMA – Disable

Z640 Optional system BIOS settings**

** Only required if the User is experiencing recognition, operational or audio "popping" when using a USB audio I/O device (such as an Mbox or 3rd party USB audio device). These settings will resolve any of these issues which might be experienced with USB audio I/O devices.

1. Set Runtime Power Management - Disable
2. Set Idle Power Savings - Normal
3. Set Intel Turbo Mode – Disable

Set Z640 Required system BIOS settings:

- During boot up press F10 at the HP splash screen to invoke Set Up.

- Select the Advanced tab
- Select Performance Options
- Verify Intel Hyper-Threading setting is Enable
  - If Hyper-Threading is set for Disable then it must be changed to Enable
- Return to the Main screen

- Select Advanced Tab
- Select Performance Options
- Select Non-Uniform Memory Access (NUMA)
- Default setting is Enable
  - Change this setting from Enable to Disable

- Return to the Main screen
- Select "Save Changes and Exit"
- When prompted to "Save Changes?" , select "Yes"
- System will reboot

Set Z640 Optional system BIOS settings: **Only required if connecting USB audio I/O devices and experiencing any of the issues described above..

- Select Advanced Power Options
- Select Runtime Power Management
- Default setting is Enable
  - Change this setting from Enable to Disable

- Select Idle Power Savings
- Default setting is Extended
  - Change this setting from Extended to Normal

- Return to the Main screen
- Select the Power tab
- Select Hardware Power Management
- Select Turbo Mode ***(This setting might not appear once the Runtime Power Management setting has been disabled. This is o.k. and means Turbo Mode has been disabled).***
- Default setting is Enable
  - Change this setting from Enable to Disable
- Select "Save Changes and Exit"
- When prompted to "Save Changes?" , select "Yes"
- System will reboot

7.) Nvidia Qualified Driver , GPU and settings:

Nvidia qualified drivers

AVID Software	Version(s)	Nvidia Driver required	Nvidia GPU
Media Composer	(8.x) 8.2.0 and later (7.x) 7.0.4.1 and later**	340.84	K4200 K5200
NewsCutter	(11.x) 11.0.4.1 and later**	340.84	K4200 K5200

After installation of the AVID software the supported Nvidia driver can be found in the following directory:
Program Files / Avid / Utilities / Nvidia

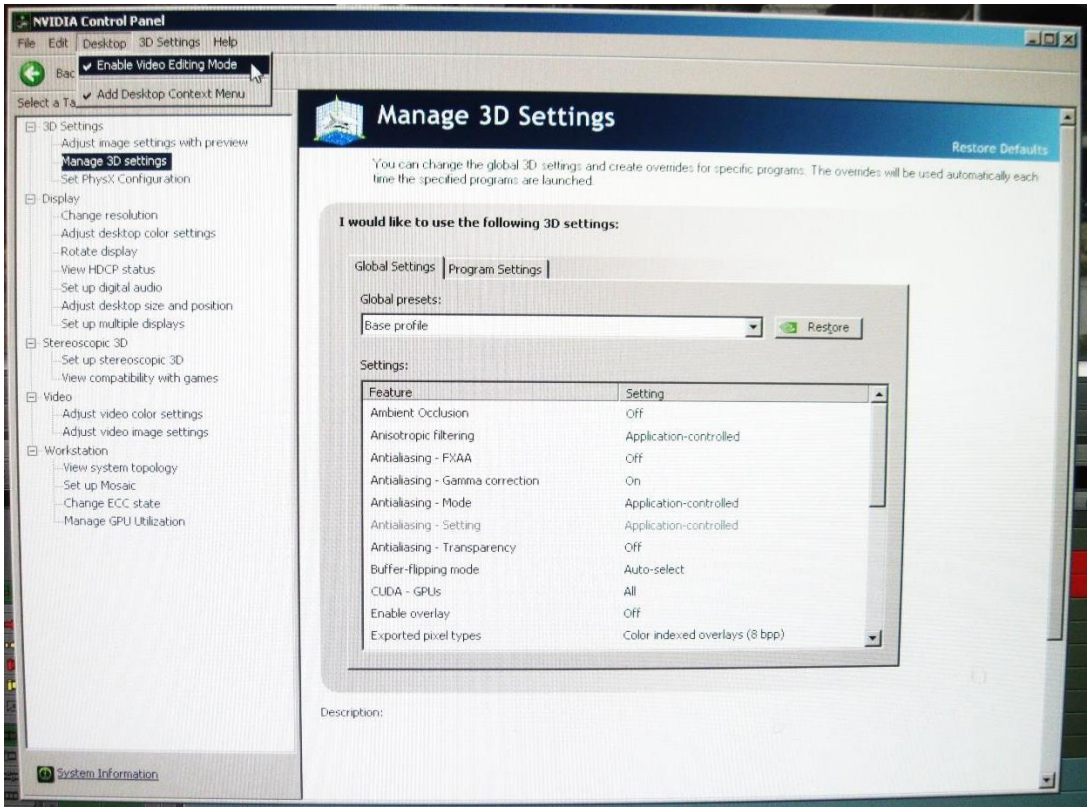
** *Requires specific driver files for support of the next generation Nvidia video cards used in this system , i.e. Nvidia K4200 , K5200*

The required GPU files and installation instructions for Media Composer 7.0.4.1 can be found at the following Avid KB link:
http://avid.force.com/pkb/articles/en_US/compatibility/Media-Composer-7-0-4-1-Nvidia-GPU-Update

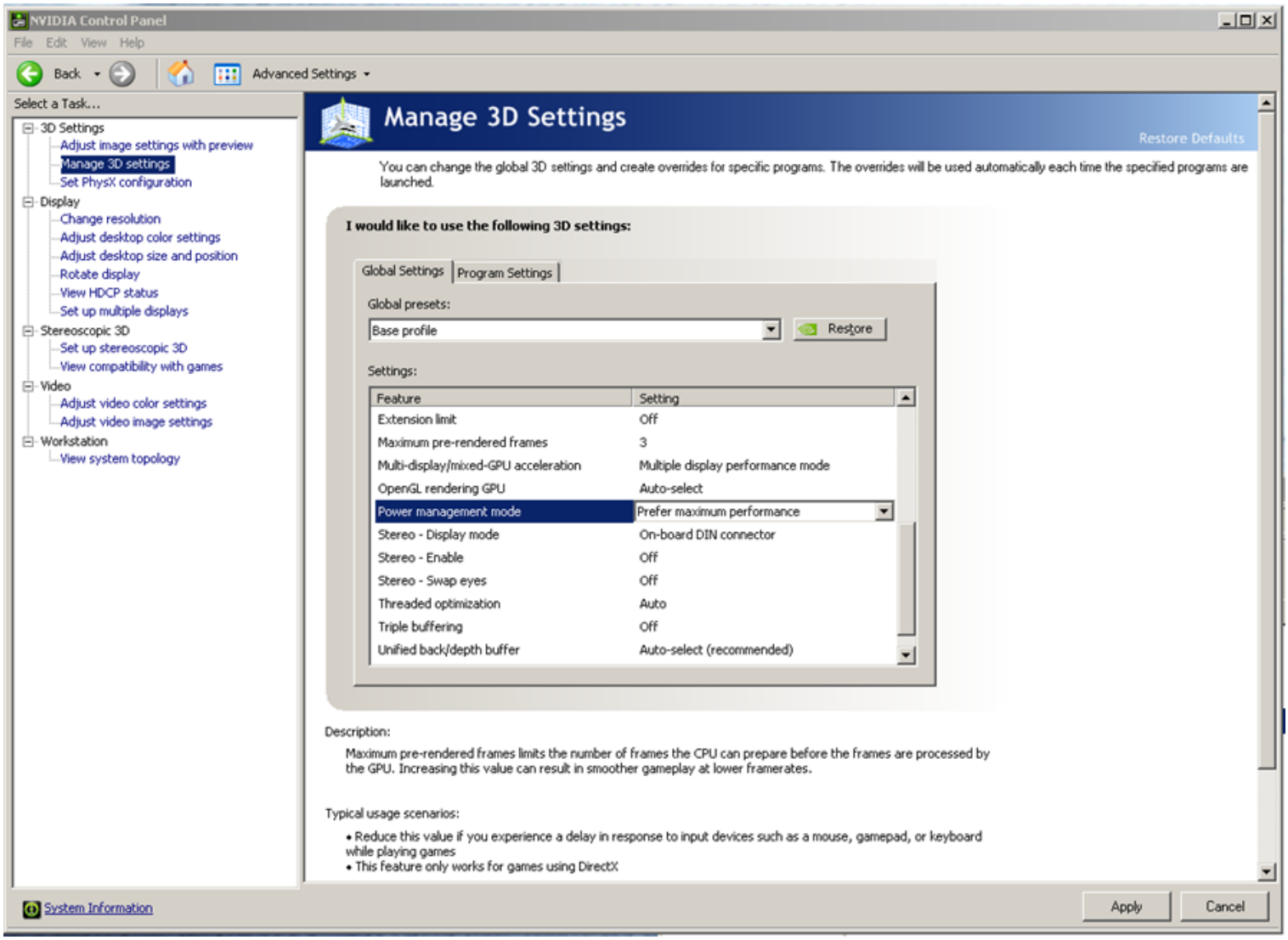
The required GPU files and installation instructions for NewsCutter 11.0.4.1 can be found at the following Avid KB link:
http://avid.force.com/pkb/articles/en_US/compatibility/NewsCutter-11-0-4-1-Nvidia-GPU-Update

Set optimized Nvidia driver settings for Avid editing environments:

1. See picture below
2. Right-Click on the desktop and select Nvidia Control Panel
3. Select the “Desktop” menu selection in the control panel menu bar.
4. Enable “Desktop -> Video Editing Mode



5. See picture below
6. Right-Click on the desktop and select Nvidia Control Panel
7. Select Manage 3D Settings
8. Select “Global Settings” Tab
9. Under the “Global Settings” tab select “Base Profile”.
10. Scroll down and locate the “Power Management Mode” feature. The default setting is “Adaptive”. For the “Power management mode” feature, select “Prefer maximum performance” as shown in the picture below.



11. Depress the “Apply” button.
12. Nvidia settings complete

8.) Use of embedded NIC port for ISIS connectivity

The Z640 has two embedded Intel NIC ports:

- I218-LM
- I210

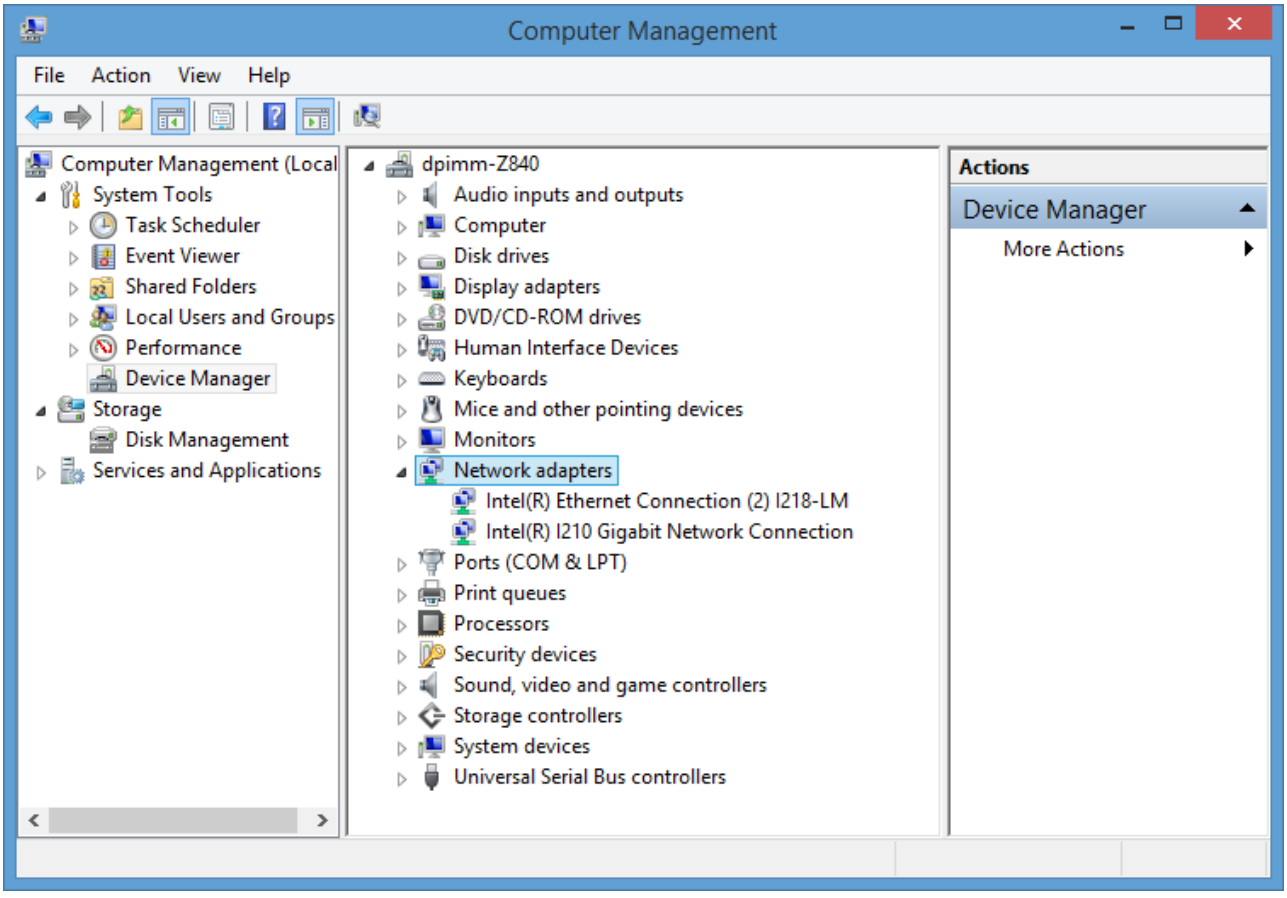
These NIC ports are qualified for Avid ISIS 5500 / 5000 / 7500 / 7000 connectivity. An add-in NIC HBA is not recommended or required.

For proper operation and connectivity of the Intel NIC(s) with ISIS the following settings are required:

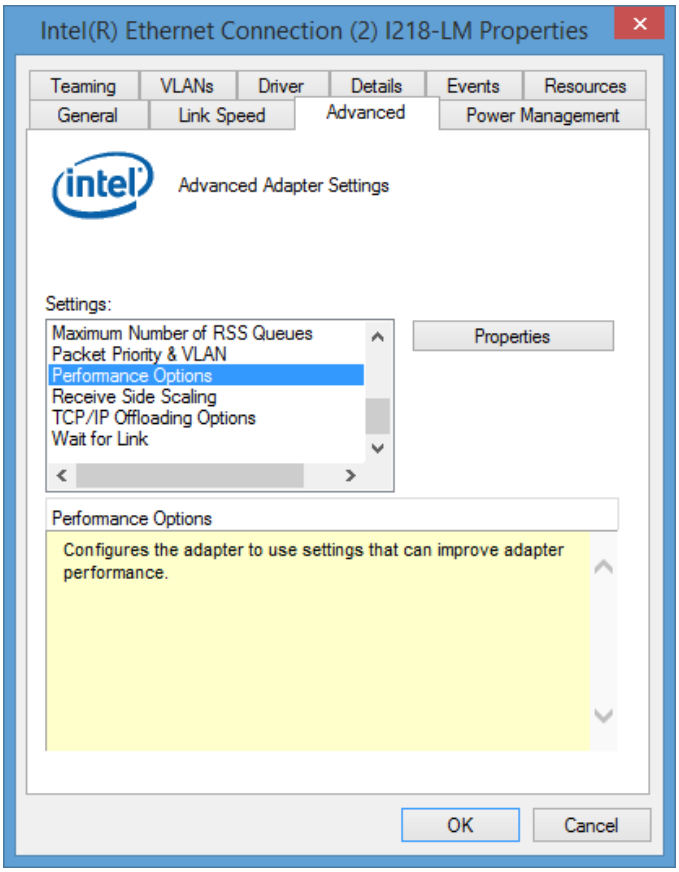
1. For the performance settings, change the following parameters:
   - Receive Buffers to 1024
   - Transmit Buffers to 1024

2. Disable the windows firewall.

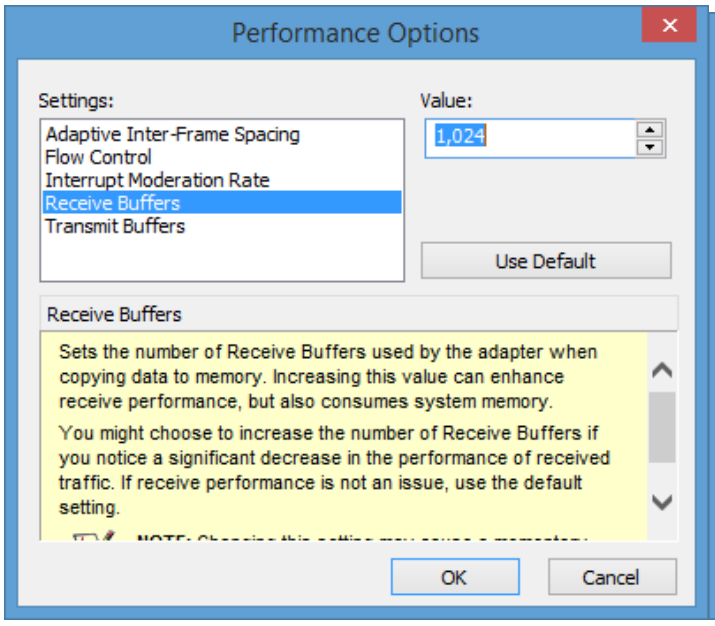
To set the Intel NIC Receive / Transmit buffers:
Go to device manager and select each instance of the network adapter device which will be used for ISIS connectivity.



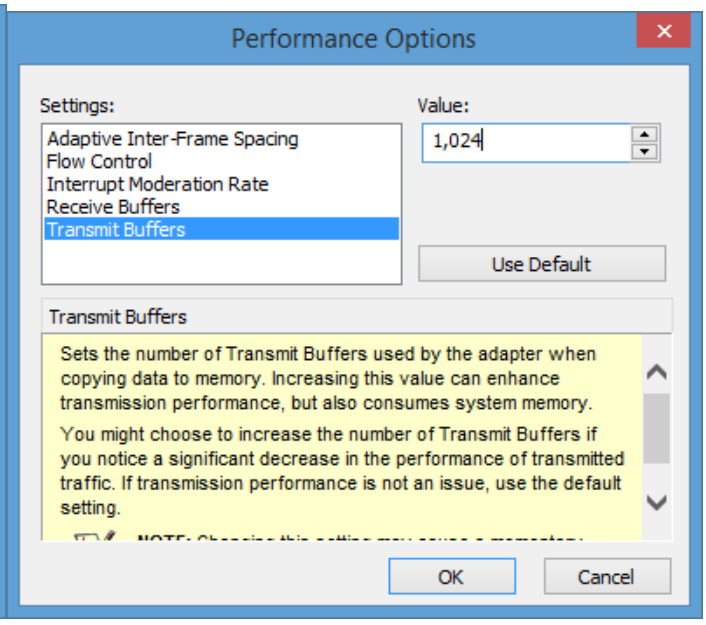
Select performance options and then select Properties.



Set Receive Buffers to 1024


Performance Options
Settings:
Value:
Adaptive Inter-Frame Spacing
Flow Control
Interrupt Moderation Rate
Receive Buffers
Transmit Buffers
1,024
Use Default
Receive Buffers
Sets the number of Receive Buffers used by the adapter when copying data to memory. Increasing this value can enhance receive performance, but also consumes system memory.
You might choose to increase the number of Receive Buffers if you notice a significant decrease in the performance of received traffic. If receive performance is not an issue, use the default setting.
OK
Cancel

Set Transmit Buffers to 1024

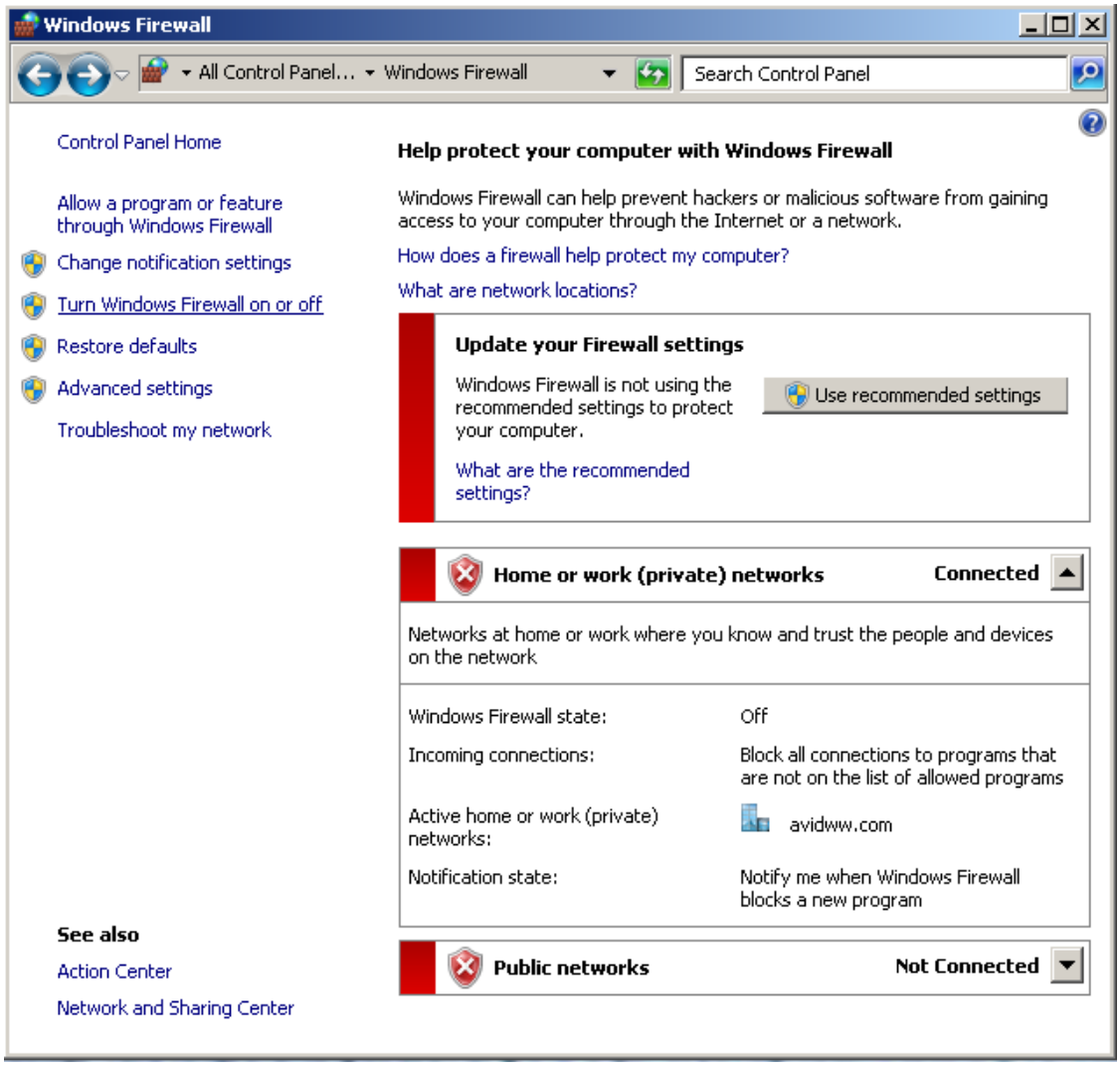

Performance Options
Settings:
Value:
Adaptive Inter-Frame Spacing
Flow Control
Interrupt Moderation Rate
Receive Buffers
Transmit Buffers
1,024
Use Default
Transmit Buffers
Sets the number of Transmit Buffers used by the adapter when copying data to memory. Increasing this value can enhance transmission performance, but also consumes system memory.
You might choose to increase the number of Transmit Buffers if you notice a significant decrease in the performance of transmitted traffic. If transmission performance is not an issue, use the default setting.
OK
Cancel

Perform this for each instance of any Intel NIC port which will be used for ISIS connectivity.

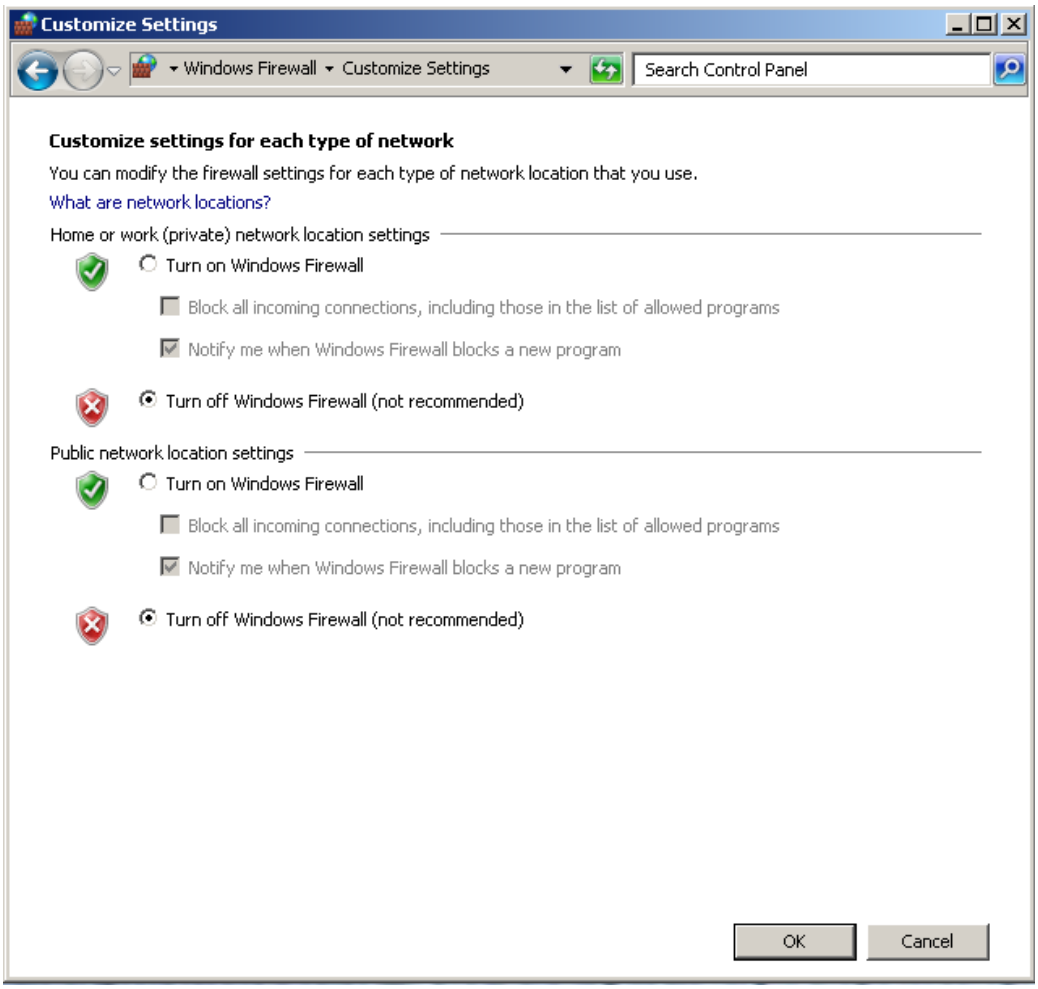
8a.) Firewall Notes For ISIS Connectivity

Disable the windows firewall:

Navigate to Control Panel / Windows Firewall -- Select Turn Windows Firewall on or off


Windows Firewall
All Control Panel... ▸ Windows Firewall
Search Control Panel
Control Panel Home
Allow a program or feature through Windows Firewall
Change notification settings
Turn Windows Firewall on or off
Restore defaults
Advanced settings
Troubleshoot my network
Help protect your computer with Windows Firewall
Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.
How does a firewall help protect my computer?
What are network locations?
Update your Firewall settings
Windows Firewall is not using the recommended settings to protect your computer.
Use recommended settings
What are the recommended settings?
Home or work (private) networks
Connected
Networks at home or work where you know and trust the people and devices on the network
Windows Firewall state:
Off
Incoming connections:
Block all connections to programs that are not on the list of allowed programs
Active home or work (private) networks:
avidww.com
Notification state:
Notify me when Windows Firewall blocks a new program
See also
Action Center
Network and Sharing Center
Public networks
Not Connected

Select Turn off windows firewall in both network locations, OK to save


Customize Settings
Windows Firewall ▸ Customize Settings
Search Control Panel
Customize settings for each type of network
You can modify the firewall settings for each type of network location that you use.
What are network locations?
Home or work (private) network location settings
Turn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
Turn off Windows Firewall (not recommended)
Public network location settings
Turn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
Turn off Windows Firewall (not recommended)
OK
Cancel

Important note specific to 2 X 1Gb connected client on ISIS 7500/7000 that use Windows 8.1

Note: To avoid lower performance on Windows 8.1 clients with 2 x 1Gb connection to ISIS 7000, check the following related to the Windows Firewall:

1. The network profile for adapter connected to ISIS network should be private or domain. If it is set to public then in ISIS Client manager General preferences you need to check if Public network profile is enabled. The Windows Firewall settings changed in the ISIS client will take effect upon next reboot.
2. Confirm the Windows Firewall is turned on for the proper network profile which is assigned to network between client and ISIS.

9.) Various Configuration Details:

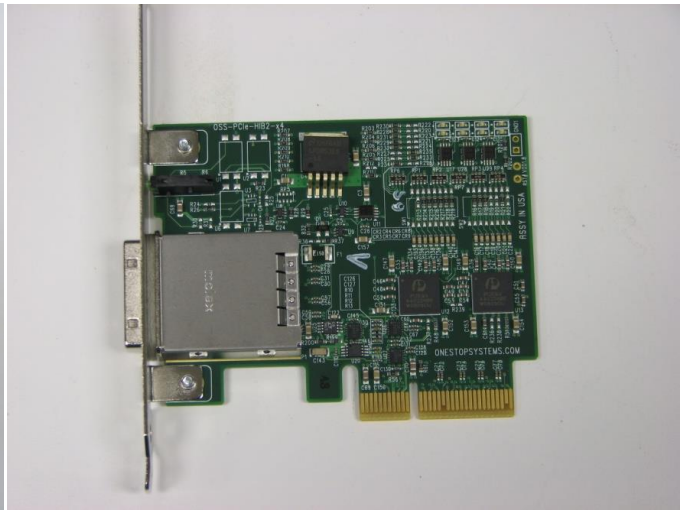
Avid DX Hardware

All versions of the active DX interface HBA are supported for the Z640

1) Active DX interface HBA 7030-30048-02
2) Active DX interface HBA 7030-30048-01
3) Active DX interface HBA 7030-20084-01

Active DX interface HBA 7030-30048-01

Active DX interface HBA 7030-20084-01



Active DX interface HBA 7030-30048-02

Ensuring that Avid Nitris-DX and Mojo-DX are properly recognized with Windows 8 systems

Recognition of the Avid DX hardware may be problematic when the CPU is powered and a fast start-up boot method is used to activate the CPU. To change this behaviour on Win 8, turn off the fast start-up selection in the shutdown settings. To do this: Open the control panel and select Hardware and Sound. Under Power Options, select Change what the power buttons do. At the bottom, de-select Turn on fast start-up and save the changes. This will insure consistent and proper recognition of the Avid DX hardware.

For very detailed instructions search the Avid Support Knowledge Base for the following article:
"Ensuring that Avid Nitris-DX and Mojo-DX are properly recognized with Windows 8 systems"

See Instructions Below:

1.) Open Control Panel and select "Hardware and Sound"
2.) Under Power Options, select "Change what the power buttons do"
3.) Select "Change settings that are currently unavailable" (This will allow the user to change the "Turn on fast start-up" setting)
4.) "Turn on fast start-up" will likely be currently selected
5.) De-select / Un-check "Turn on fast start-up"
6.) Select "Save Changes"

10.) Serial Port Deck Control:

Serial Port Deck Control:

The HP Z640 workstation does have an embedded serial port. The embedded serial-port has been qualified by Avid and will maintain frame accuracy in Avid environments. Primary or secondary / additional serial port deck control can be established via two methods (both of which have been qualified by Avid and will maintain frame accuracy in Avid environments)

1. Addenda model **RS-USB / 4** direct USB-to-RS422 serial adapter. This is a simple device which connects directly from a USB port of the Z640 directly to the RS422 port of a deck.
   http://www.addenda.com/addenda-elect/products/rsUSB4.php

2. Combination of a Keyspan (Tripp-Lite) Model USA-19HS USB-to-serial-port adapter with Addenda Rosetta Stone model RS – 2/8 RS232-to-RS422 converter

   - Keyspan (Tripp-Lite) Model USA-19HS (AVID P/N 7080-20013-01)
     http://www.tripplite.com/en/products/model.cfm?txtSeriesID=518&EID=13384&txtModelID=3914
   - Addenda Rosetta Stone (or equivalent) model RS – 2/8 RS232-to-RS422 converter (AVID P/N 7070-00507-01)
     http://www.addenda.com/addenda-elect/products/rs28.php

To connect the Keyspan 19HS / Addenda RS -2/8 combination:

- Install the Keyspan 19HS driver before plugging the device into a Z640 USB port.
- Once the Keyspan 19HS driver is installed then plug the Keyspan 19HS into a Z640 USB port.
- The Keyspan 19HS will now show up in device driver.
- Using a serial cable, connect the 9-pin serial port of the Keyspan 19HS USB adapter to the port of the Addenda marked RS232 from PC
- Using a 2nd serial port cable connect the port of the Addenda marked "RS422 to VTR" to the deck control serial port of the deck.

11.) O.S. setting recommendations for optimum performance with Avid Editing applications:

The following Avid support KB articles provide O.S. setting suggestions for ensuring optimum performance when working with your Avid editing application with a Windows operating system.

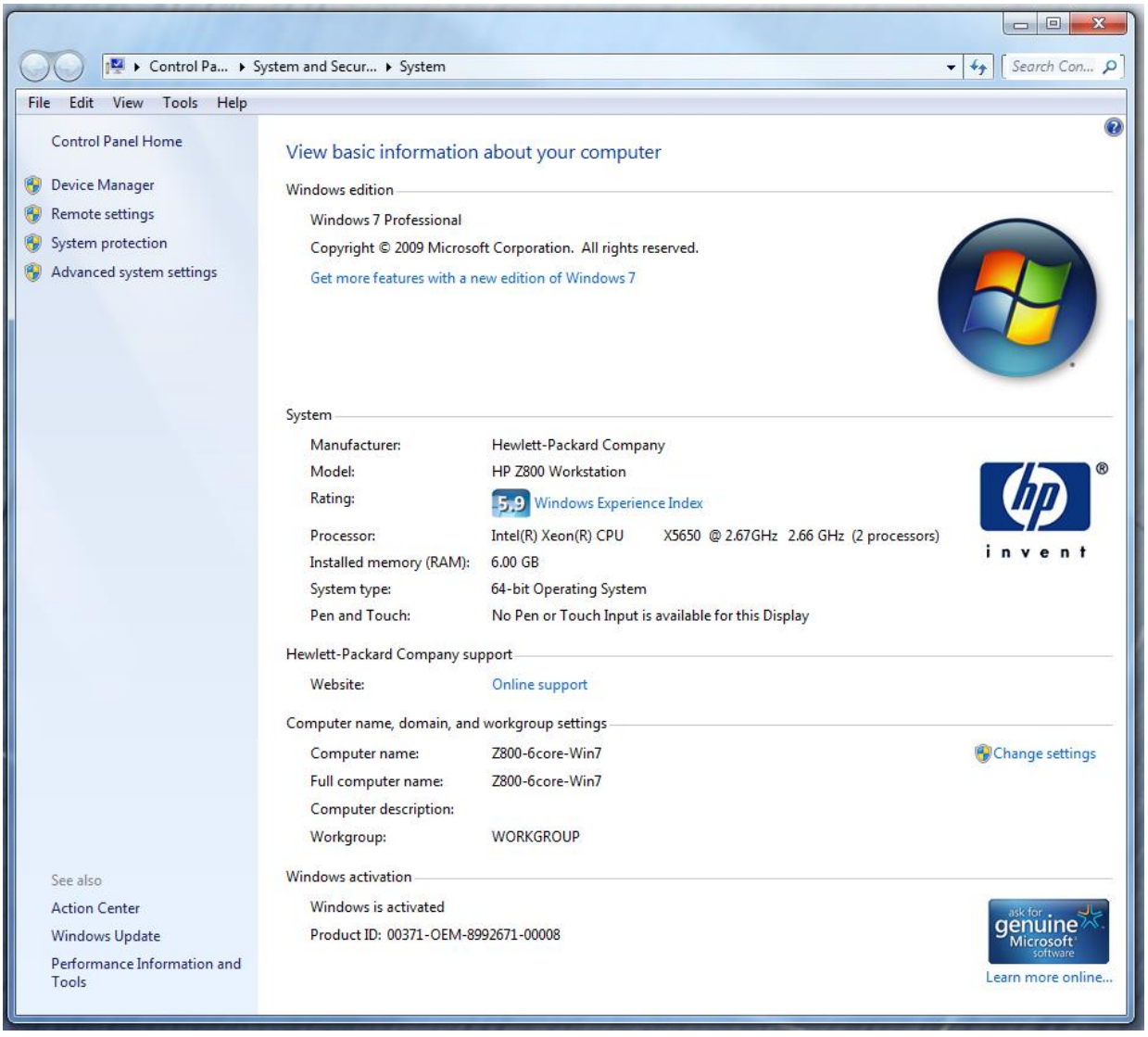
- Optimizations for Video Editors

For Win7 Optimizations search the Avid Support Knowledge Base for the following article:
"Windows Guide - Windows 7 Optimizations and Troubleshooting"

For Win8 Optimizations search the Avid Support Knowledge Base for the following article:
"Windows Guide - Windows 8 Optimizations and Troubleshooting"

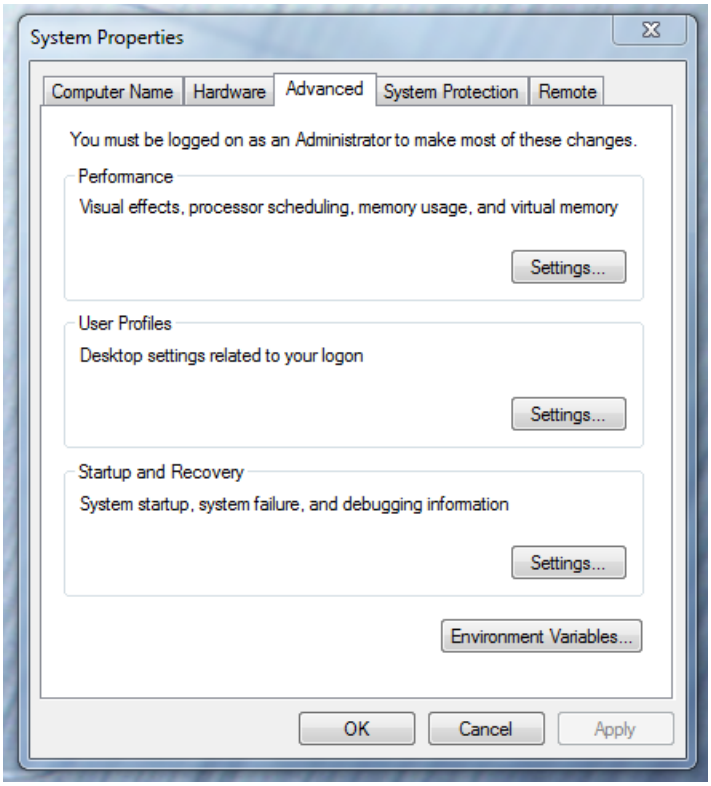
12.) Set Windows “Visual Effects” for “best performance”:

1. Right-Click on My Computer / Computer
2. Select Properties
3. The screen below will be displayed:

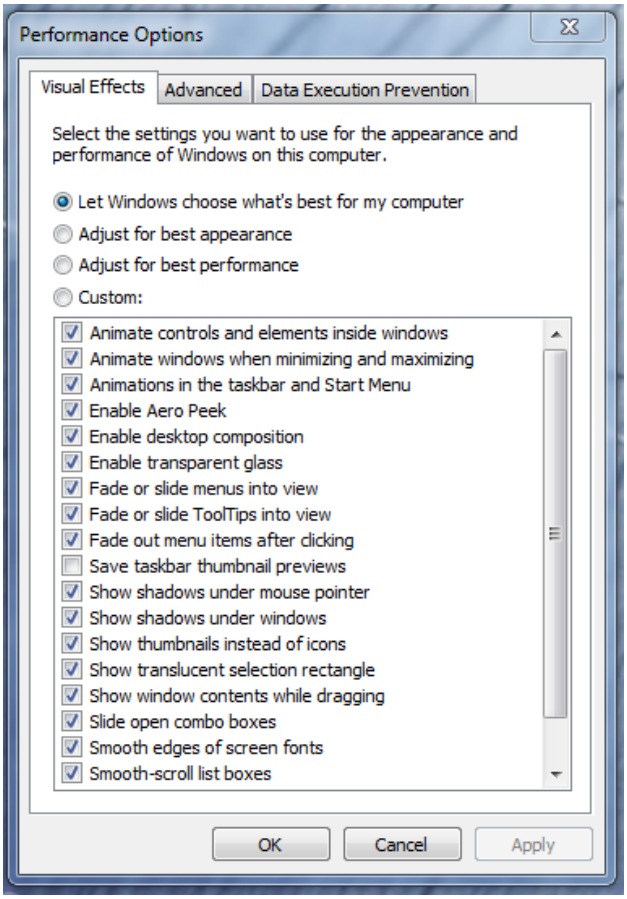

Control Pa... ▸ System and Secur... ▸ System
Search Con...
File Edit View Tools Help
Control Panel Home
Device Manager
Remote settings
System protection
Advanced system settings
View basic information about your computer
Windows edition
Windows 7 Professional
Copyright © 2009 Microsoft Corporation. All rights reserved.
Get more features with a new edition of Windows 7
System
Manufacturer: Hewlett-Packard Company
Model: HP Z800 Workstation
Rating: 5.9 Windows Experience Index
Processor: Intel(R) Xeon(R) CPU X5650 @ 2.67GHz 2.66 GHz (2 processors)
Installed memory (RAM): 6.00 GB
System type: 64-bit Operating System
Pen and Touch: No Pen or Touch Input is available for this Display
invent
Hewlett-Packard Company support
Website: Online support
Computer name, domain, and workgroup settings
Computer name: Z800-6core-Win7
Full computer name: Z800-6core-Win7
Computer description:
Workgroup: WORKGROUP
Change settings
Windows activation
Windows is activated
Product ID: 00371-OEM-8992671-00008
ask for genuine Microsoft software
Learn more online...
See also
Action Center
Windows Update
Performance Information and Tools

4. On the left side of the screen above, locate and select “Advanced system settings”

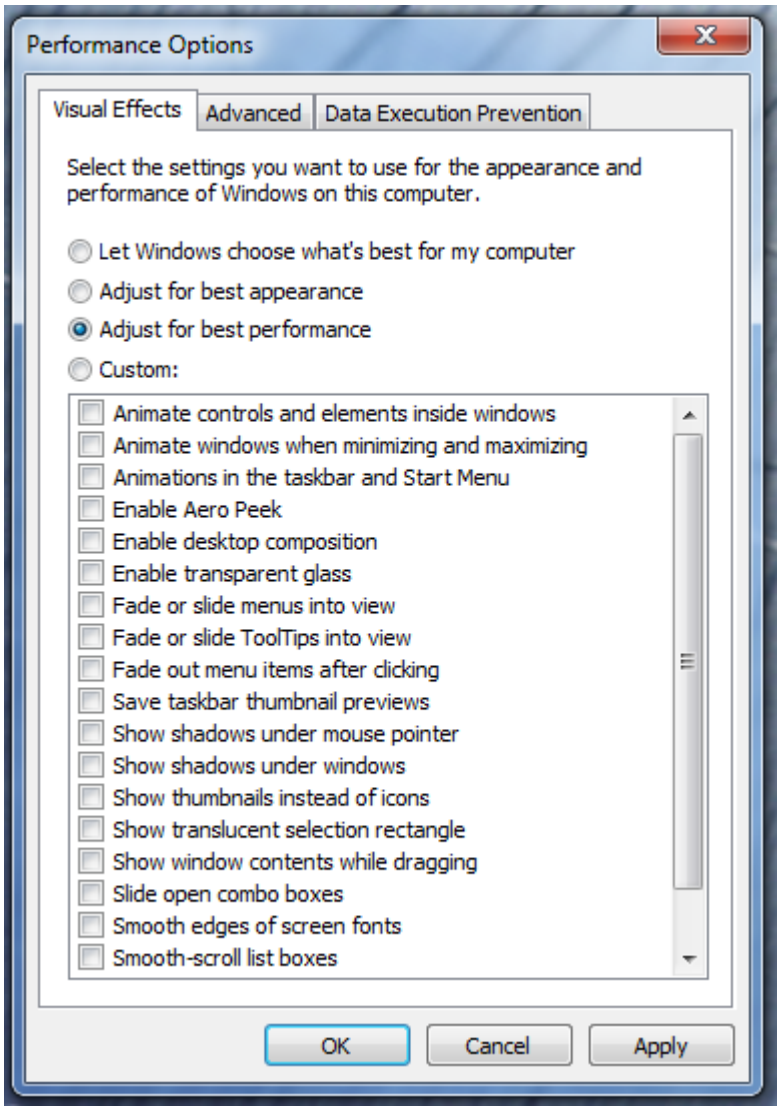
5. The System properties window will be displayed. (Picture below).



6. Under the “Advanced” tab depress the “Settings...” button for performance.
7. The “performance Options” window will be displayed. (Picture below).


Performance Options
Visual Effects
Advanced
Data Execution Prevention
Select the settings you want to use for the appearance and performance of Windows on this computer.
Let Windows choose what's best for my computer
Adjust for best appearance
Adjust for best performance
Custom:
Animate controls and elements inside windows
Animate windows when minimizing and maximizing
Animations in the taskbar and Start Menu
Enable Aero Peek
Enable desktop composition
Enable transparent glass
Fade or slide menus into view
Fade or slide ToolTips into view
Fade out menu items after clicking
Save taskbar thumbnail previews
Show shadows under mouse pointer
Show shadows under windows
Show thumbnails instead of icons
Show translucent selection rectangle
Show window contents while dragging
Slide open combo boxes
Smooth edges of screen fonts
Smooth-scroll list boxes
OK
Cancel
Apply

8. Under the “Visual Effects” tab select the “Adjust for best performance” selection. (Picture below).


Performance Options
Visual Effects
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Show translucent selection rectangle
Show window contents while dragging
Slide open combo boxes
Smooth edges of screen fonts
Smooth-scroll list boxes
OK
Cancel
Apply

9. Depress the “Apply” button
10. Reboot Windows
11. Required Windows visual performance settings for Avid environments are now complete.

Revision Update

Revision	Date	Name	Update
Rev A	March 3rd, 2015	Joe Conforti	Initial release of the Z640 configuration guide for support of Media Composer 7.x , 8.x and NewsCutter 11.x